

=> d his

(FILE 'HOME' ENTERED AT 10:10:37 ON 02 DEC 2005)

FILE 'REGISTRY' ENTERED AT 10:10:46 ON 02 DEC 2005

L1 STRUCTURE UPLOADED

L2 3 S L1

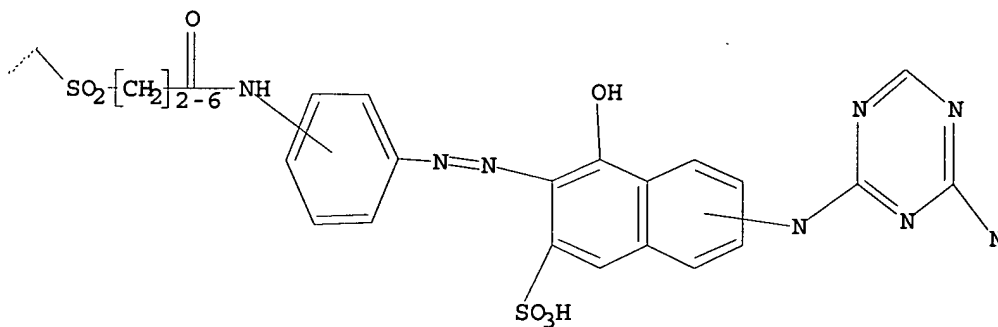
L3 8 S L1 FULL

FILE 'CAPLUS' ENTERED AT 10:12:08 ON 02 DEC 2005

L4 2 S L3

=> d que l4 stat

L1 STR



Structure attributes must be viewed using STN Express query preparation.

L3 8 SEA FILE=REGISTRY SSS FUL L1

L4 2 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> d 1-2 ibib iabs hitstr

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2005:1042344 CAPLUS
 DOCUMENT NUMBER: 143:348671
 TITLE: Fibre-reactive dyes, their preparation and their use
 INVENTOR(S): Tzikas, Athanassios; Roentgen, Georg; Christnacher, Hubert Jean Luc
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
 SOURCE: PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

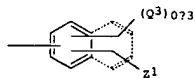
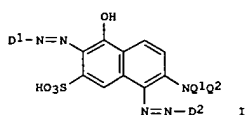
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2005090484 | A1 | 20050929 | WO 2005-EP51044 | 20050309 |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SH, TD, TG

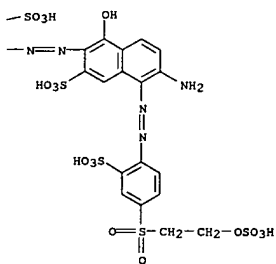
PRIORITY APPLN. INFO.: EP 2004-101144 A 20040319

GRAPHIC IMAGE:



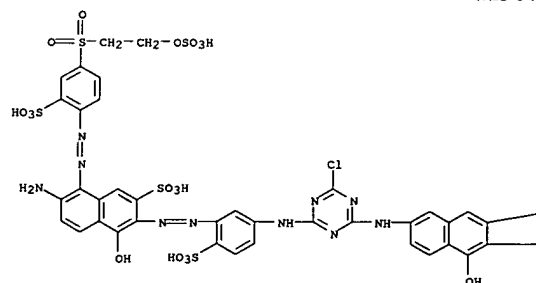
L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 1-B



RN 865359-64-4 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A



L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

ABSTRACT:

The invention relates to reactive dyes of formula (I), wherein Q1 and Q2 are each independently of the other hydrogen or unsubstituted or substituted C1-C4 alkyl, D1 is the radical of a diazo component, which is itself a mono- or dis-azo dye or contains such a dye, D2 has the same definition as D1 or is a radical of formula (II), wherein (Q3)0-3 denotes from 0 to 3 identical or different substituents selected from the group halogen, C1-C4 alkyl, C1-C4 alkoxy, carboxy and sulfo and Z1 is a radical of formula -SO2-Y (3a), -NH-CO-(CH2)m-SO2-Y (3b), -CONH-(CH2)n-SO2-Y (3c), -NH-CO-CH(Hal)-CH2-Hal (3d) or -NH-CO-C(Hal):CH2 (3e), Y is vinyl or a -CH2-CH2-U radical and U is a group that is removable under alkaline conditions, m and n are each independently of the other the number 2, 3 or 4, and Hal is halogen. The dye mixts. are suitable for dyeing cellulosic or amide-group-containing fiber materials (e.g., cotton fabrics) with good fastness properties.

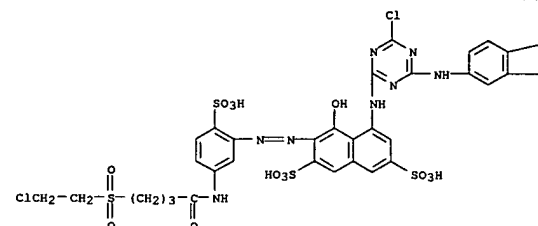
IT 865359-42-8P 865359-64-4P

RL: IMP (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (production of fiber-reactive diazo dyes for for dyeing cellulosic or amide-containing fiber materials)

RN 865359-42-8 CAPLUS

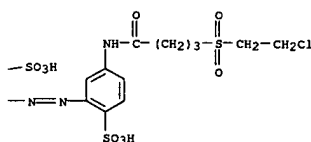
CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A



L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 1-B

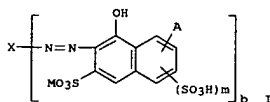


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:338130 CAPLUS
 DOCUMENT NUMBER: 134:341613
 TITLE: Reactive azo dyes, their production and their use
 INVENTOR(S): Tzikas, Athanassios; Deitz, Rolf; Klier, Herbert
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
 SOURCE: Eur. Pat. Appl., 55 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| EP 1097971 | A1 | 20010509 | EP 2000-811000 | 20001027 |
| EP 1097971 | B1 | 20030723 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| EP 1312651 | A2 | 20030521 | EP 2003-3629 | 20001027 |
| EP 1312651 | A3 | 20031203 | | |
| R: CH, DE, ES, FR, GB, IT, LI | | | | |
| ES 2202029 | T3 | 20040401 | ES 2000-811000 | 20001027 |
| US 6323327 | B1 | 20011127 | US 2000-704354 | 20001102 |
| JP 2001172517 | A2 | 20010626 | JP 2000-336846 | 20001106 |
| US 6392021 | B1 | 20020521 | US 2001-961820 | 20010924 |
| | | | EP 1999-811015 | A 19991105 |
| | | | EP 2000-811000 | A3 20001027 |
| | | | US 2000-704354 | A1 20001102 |

OTHER SOURCE(S): MARPAT 134:341613
 GRAPHIC IMAGE:

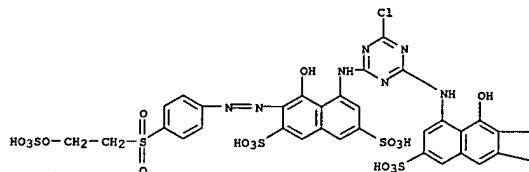


ABSTRACT:
 The reactive dyes I (A = vinyl sulfone- or halotriazine-containing fiber-reactive group; X = vinyl sulfone-containing diazo component-based group; b = 1, 2) are obtained by coupling diazotized XNH2 or tetrazotized X(NH2)2 with the requisite sulfonaphthol coupling component. I have good coloristic, application, and fastness properties when applied to cotton or wool; they may also be applied in

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 jet-printing inks. A red disazo dye was prep. using as the coupling component the condensate of cyanuric chloride and 1-amino-8-naphthol-3,6-disulfonic acid. One diazo component was 4-(2-sulfatoethylsulfonyl)aniline and the other was the condensate of 1,3-phenylenediamine-4-sulfonic acid with γ-(β-chloroethylsulfonyl)butyryl chloride.

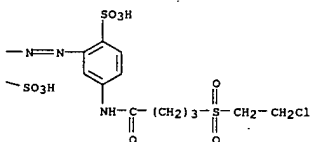
IT 338398-55-3P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (red dye; production of reactive azo dyes for cotton, wool and jet-printing inks)
 RN 338398-55-3 CAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 5-[[[4-chloro-6-[[[7-[[[5-[[[4-[[[2-chloroethyl)sulfonyl]-1-oxobutyl]amino]-2-sulfophenyl]azo]-8-hydroxy-3,6-disulfo-1-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[[[4-[[[2-(sulfooxy)ethyl)sulfonyl]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 1-B



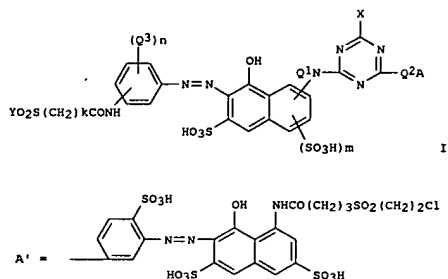
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

```
=> => d que l11 stat
L7      127 SEA FILE=CAPLUS ABB=ON  PLU=ON  "TZIKAS ATHANASSIOS"/AU
L8      27  SEA FILE=CAPLUS ABB=ON  PLU=ON  ("MULLER BERNHARD"/AU OR
        "MULLER BERNHARD H"/AU)
L9      8   SEA FILE=CAPLUS ABB=ON  PLU=ON  "ROENTGEN GEORG"/AU
L10     153 SEA FILE=CAPLUS ABB=ON  PLU=ON  L7 OR L8 OR L9
L11     26  SEA FILE=CAPLUS ABB=ON  PLU=ON  L10 AND (REACTIVE AND AZO AND
        TRIAZIN?)
```

```
=> d 1-26 bib abs
```

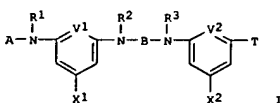
L11 ANSWER 1 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:120916 CAPLUS
 DN 140:165441
 TI Reactive azo dyes, their production and their use
 IN Tsikas, Athanassios; Mueller, Bernhard; Roentgen, Georg
 PA Ciba Specialty Chemicals Holding, Inc., Switz.
 SO PCT Int. Appl., 52 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| PI WO 2004013235 | A1 | 20040212 | WO 2003-EP7636 | 20030715 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1523527 | A1 | 20050420 | EP 2003-766169 | 20030715 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| JP 2005533911 | T2 | 20051110 | JP 2004-525198 | 20030715 |
| US 2005241080 | A1 | 20051103 | US 2005-523241 | 20050119 |
| PRAI EP 2002-405646 | A | 20020724 | | |
| WO 2003-EP7636 | W | 20030715 | | |
| OS MARPAT 140:165441 | | | | |
| GI | | | | |



L11 ANSWER 2 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2002:51717 CAPLUS
 DN 136:119798
 TI Printing cellulosic fiber materials without an additional fixing process step
 IN Tsikas, Athanassios; Reichert, Hans; Klier, Herbert
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 54 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| PI WO 2002004741 | A1 | 20020117 | WO 2001-EP7362 | 20010628 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1299594 | A1 | 20030409 | EP 2001-953180 | 20010628 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| JP 2004502886 | T2 | 20040129 | JP 2002-509589 | 20010628 |
| US 2002032318 | A1 | 20020314 | US 2001-899439 | 20010705 |
| US 6623533 | B2 | 20030923 | | |
| US 2004055098 | A1 | 20040325 | US 2003-618922 | 20030714 |
| US 6953845 | B2 | 20051011 | | |
| PRAI EP 2000-810594 | A | 20000707 | | |
| WO 2001-EP7362 | W | 20010628 | | |
| US 2001-899439 | A3 | 20010705 | | |
| OS MARPAT 136:119798 | | | | |
| GI | | | | |



AB Printing cellulosic fiber materials comprises fiber material brought into contact with reactive dyes 1, where A is the radical of a monoazo, polyazo, metal complex azo, anthraquinone, phthalocyanine, formazan or dioxazine chromophore, R1, R2 and R3 = H or unsubstituted or substituted C1-4-alkyl, X1 and X2 = halogen, B is an organic bridging member, T is a reactive radical, R4 = H, C1-4-alkyl unsubstituted or substituted by hydroxy, sulfo, sulfato, carboxy or by CN, or a radical alkR5SO2Y, where R5 = is H, OH, sulfo, sulfato, carboxy, CN, halogen, C1-4-alkoxy, carbonyl, C1-4-alkenyl, C1-4-alkynyl, R6 = H or C1-4-alkyl, alk and alk1 are linear or branched C1-6-alkylene, arylene

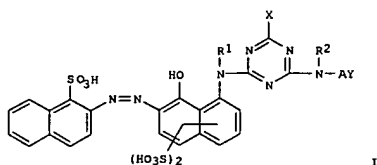
L11 ANSWER 1 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

AB Reactive dyes (I; A = monoazo, polyazo, metal complex azo, anthraquinone, phthalocyanine, formazan, dioxazine chromophore group, Q1, Q2 = H, optionally substituted C1-4-alkyl; Q3 = C1-4-alkyl, C1-4-alkoxy, halogen, sulfo; X = halogen, 3-carboxypyridin-1-yl, 3-carbamoylpyridin-1-yl, hydroxy, optionally substituted C1-4-alkoxy, optionally substituted phenoxy, optionally substituted C1-4-alkylthio, optionally substituted amino, N-heterocycle which may or may not contain further hetero atoms; Y = vinyl or vinyl-forming group; k = 2, 3, 4, 5, 6; m = 0, 1; n = 0, 1, 2 with the proviso that when A denotes a monoazo chromophore it is not directly linked to the triazinyl radical through a hydroxynaphthalenesulfonic acid coupling component and is not A') are suitable for dyeing cellulosic or nitrogen-containing fiber materials, especially cotton. I are characterized by high fastness and good application ability. In an example, 1,3-phenylenediamine-4-sulfonic acid was monoacylated with γ -(β -chloroethylsulfonyl)butyryl chloride to give a diazo component, which was coupled with a 1:1 condensate of cyanuric chloride and 1-amino-8-naphthol-3,6-disulfonic acid. The product was further condensed with an aniline azo derivative to provide a red diazo reactive dye.

L11 ANSWER 2 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 is an unsubstituted or sulfo, carboxy, OH, C1-C4alkyl, C1-C4alkoxy- or halo-substituted phenylene or naphthylene radical, Y = vinyl or a radical CH2CH2U and U is a leaving group, V1 = CH(Hal)CH2(Hal) or C(Hal)=CH2, where Hal is Cl or Br, W = SO2NR6, CONR6 or NR6CO, Q = O or NR6, n = 0 or 1, and V1 and V2 = N, CH, CCl or CF. The prints obtained are distinguished by brilliant color shades and good all around properties.
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:713481 CAPLUS
DI 135:258550
TI Reactive naphthylazonaphthyl triazinyl dyes, their
production and their use
IN T. Achamswiler, Deitz, Rolf; Cortese, Bruno
PA Ciba Specialty Chemicals Holding Inc., Switz.
SO PCT Int. Appl., 16 pp.
CODEN: PIKXDJ
DT Patent
LA English
FAN CONT. 1

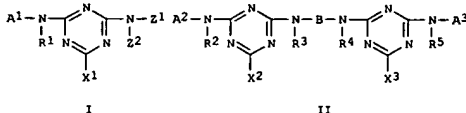
L11 ANSWER 3 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
cotton.
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

[illegible]

AB The azo reactive dyes I (A = C2-8-alkylene interrupted by oxygen; R1, R2 = H, optionally substituted C1-4-alkyl; X = halogen; Y vinylsulfonyl or vinyl sulfone precursor) are obtained for dyeing cotton and yield dyeings having good all-around properties. In an example, cyanuric chloride was condensed with 4-amino-5-hydroxy-6-(1-sulfo-2-naphthylazo)-2,7-naphthalenedisulfonic acid to give a red reactive dye, red on

L11 ANSWER 4 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:67442 CAPLUS
DN 134:132887
TI Fiber-reactive dyes, their manufacture, and uses in fiber dyeing
or printing
IN Takas, Athanasios
PA Ciba Specialty Chemicals Holding, Inc., Switz.
SO Jpn. Kokai Tokkyo Koho, 37 pp.
CODEN: JKOCXAF
DT Patent
LA Japanese

| PATENT NO. | | KIND | DATE | APPLICATION NO. | DATE |
|------------|-------------------|------|----------|-----------------|----------|
| PI | JP 2001026726 | A2 | 20010130 | JP 2000-171436 | 19910925 |
| | JP 04258674 | A2 | 19920914 | JP 1991-245982 | 19910925 |
| | JP 3231364 | B2 | 20011119 | | |
| | US 5451665 | A | 19950919 | US 1993-48082 | 19930415 |
| | US 5612463 | A | 19970318 | US 1995-456215 | 19950331 |
| | US 5735911 | A | 19980407 | US 1997-775920 | 19970102 |
| | US 5892006 | A | 19990406 | US 1997-997320 | 19971223 |
| | JP 2002194241 | A2 | 20020710 | JP 1991-348181 | 20011114 |
| | JP 3636317 | B2 | 20050406 | | |
| PRAI | CH 1990-3077 | A | 19900925 | | |
| | JP 1991-245982 | A3 | 19910925 | | |
| | US 1991-764555 | A3 | 19910920 | | |
| | JP 2000-171436 | A3 | 19910925 | | |
| | US 1993-48082 | A1 | 19930415 | | |
| | US 1995-456215 | A1 | 19950331 | | |
| | US 1997-775920 | A3 | 19970102 | | |
| OS | MARPAT 134:132887 | | | | |



AB Dye mixts. contain triazines I and II (Al-R3 = dye residue;
R1-R5 = H, (un)substituted Cl-4 alkyl; B = aromatic linking group; Z1,
Z2 = H, aliphatic, aromatic, or heterocyclic group; Z1Z2 may form ring; X1-X3
= F, Cl, Br, SO3H, carboxypyridinium]. The dyes are applied to cellulosic
fiber materials to give products with good color fastness to light.
Thus, 7-(2-aminocarboxylamino-4-aminophenylazo)-1,3,6-trisulfonaphthalene
was condensed with 2,4,6-trifluoro-1,3,5-triazine followed by
2,4-diaminotoluene and morpholine to give a dye mixture

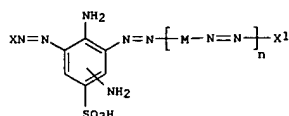
I11 ANSWER 5 OF 26 CAPLUS COPYRIGHT 2005 ACS ON STN
 AN 2000:553656 CAPLUS
 DN 133:165167
 TI Black aqueous inks containing dyes based on copper complexes of hydroxy
 group-containing azo compounds, manufacture of the dyes, and use
 of the inks
 IN Lehmann, Urs; Trikas, Athanasios; Frick, Marcel
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 104 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN CNT 2

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|------------------|----------|
| PI WO 2000046309 | A1 | 20000810 | WO 2000-EP577 | 20000126 |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LA, LS, LT, LV, MA, MD, MG, MK, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PK, PL, PT, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, RW: GH, GM, KE, LS, MW, SD, SI, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, IL, LU, NL, PT, SE, BF, BJ, CF, CG, CI, CM, CA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| AU 2000026668 | A5 | 20000825 | WO 2000-26668 | 20000126 |
| EP 1149135 | A1 | 20011031 | EP 2000-094963 | 20000126 |
| EP 1149135 | B1 | 20040303 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| BR 2000007953 | A | 20011106 | BR 2000-7953 | 20000126 |
| JP 2002356487 | T2 | 20020209 | JP 2000-597372 | 20000126 |
| AT 260955 | E | 20040315 | AT 2000-094963 | 20000126 |
| US 45880 | B | 20020621 | | 20000129 |
| PRAI EP 1999-810098 | A | 19990205 | TW 2000-89101579 | 20000129 |
| WO 2000-EP577 | W | 20000126 | | |

AS HANPAT 1337163167
 DB Black aqueous inks, useful for dyeing and printing of textiles and paper,
 contain 20-95% (A) Σ 1 dye based on sulfo and OH-group-containing
 aromatic
 (dis)azo compound complexes with Cu, 5-80% (B) Σ 1 dye based
 on sulfo group-containing (dis)azo compds. or sulfo- and
 OH-group-containing aromatic (dis)azo compound complexes with Cu
 different than (A), and 1-40% water-miscible solvent. These inks provide
 good black shades without a change in shade in artificial light
 (metamerism) and an outstanding fastness to light. A typical dye mixture
 was manufactured by (a) reaction of 9.22 parts cyanuric chloride (I)
 with 29.80
 parts Cu complex of 5-amino-3-[3-phenyl-5-(2-carboxy-5-sulfophenyl)-1-
 formazan]-4-hydroxybenzenesulfonic acid in water at 0-3° and pH 5,
 (b) sep. reaction of 3.56 parts I with 10.02 parts 4-(2-ureido-4-
 aminophenylazo)azobenzene-3,4'-disulfonic acid in water at 0-5° and
 pH 5.5, (c) sep. reaction of the resulting suspension from (b) with 2.31
 parts 1,2-diaminopropane in water at temps. from ice water to 50°
 and pH 5.5-7, and (d) reaction of the solution from (a) with the
 solution from
 (c) at 15-50° and pH 6.5-9.
 RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1997:500914 CAPLUS
 DN 127:122975
 TI *Reactive polyazo dyes, their preparation and their use*
 IN Deitz, Rolf; Herzog, Paul; Trikas, Athanasios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 26 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

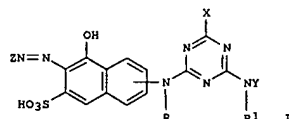
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------|------|----------|------------------|----------|
| PI EP 785237 | A1 | 19970723 | EP 1997-810011 | 19970110 |
| EP 785237 | B1 | 20010711 | | |
| R: BE, CH, DE, ES, FR, GB, IT, LI, PT | | | | |
| PT 785237 | T | 20011228 | PT 1997-810011 | 19970110 |
| JP 09194749 | A2 | 19970729 | JP 1997-4363 | 19970114 |
| TW 454030 | B | 20010911 | TW 1997-86100314 | 19970114 |
| US 5817779 | A | 19981006 | US 1997-783183 | 19970115 |
| SG 79212 | A1 | 20010320 | SG 1997-90 | 19970115 |
| CN 1163291 | A | 19971029 | CN 1997-102273 | 19970117 |
| CN 1097076 | B | 20021225 | | |
| PRAI CH 1996-150 | A | 19960119 | | |
| OS MARPAT 127:122975 | | | | |
| GI | | | | |



AB The dyes (I; M = optionally substituted aminotriazinylamino; X = aromatic moiety containing vinyl sulfone or vinyl sulfone-forming group; X1 = aromatic moiety containing vinyl sulfone or vinyl sulfone-forming group, sulfohenyl moiety containing fiber-reactive triazinylamino group, Ph moiety containing fiber-reactive triazinylamino group) are obtained from XNH2 diazo component, 2,4-diaminobenzenesulfonic acid (II), and H2N[M(N):N]X1 by diazotization and coupling in the appropriate sequence. I provide fast shades on cotton. Thus, cyanuric chloride was condensed with taurine and then II to provide a coupling component which was then coupled with diazotized 2-(4-aminophenylsulfonylethyl) H sulfate (III). The product served as a diazo component with II, yielding a disazo intermediate which was then coupled with III to provide a trisazo dye with

L11 ANSWER 7 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1997:326278 CAPLUS
 DN 126:294567
 TI *Reactive azo dyes, their preparation and their use*
 IN Deitz, Rolf; Mueller, Bernhard; Trikas, Athanasios
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO Eur. Pat. Appl., 63 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------|------|----------|------------------|----------|
| PI EP 764694 | A1 | 19970326 | EP 1996-810607 | 19960912 |
| EP 764694 | B1 | 20011107 | | |
| R: BE, CH, DE, ES, FR, GB, IT, LI, PT | | | | |
| TW 440596 | B | 20010616 | TW 1996-85110631 | 19960831 |
| ES 2164858 | T3 | 20020301 | ES 1996-810607 | 19960912 |
| PT 764694 | T | 20020429 | PT 1996-810607 | 19960912 |
| SG 49978 | A1 | 20010522 | SG 1996-10739 | 19960919 |
| JP 09111141 | A2 | 19970428 | JP 1996-249619 | 19960920 |
| CN 1157839 | A | 19970827 | CN 1996-112340 | 19960920 |
| CN 1097075 | B | 20021225 | | |
| US 5969113 | A | 19991019 | US 1997-979468 | 19971126 |
| HK 1005553 | A1 | 20020531 | HK 1998-104757 | 19980602 |
| US 2003055230 | A1 | 20030320 | US 2002-222309 | 20020816 |
| US 6670457 | B2 | 20031230 | | |
| PRAI CH 1995-2675 | A | 19950921 | | |
| OS MARPAT 126:294567 | A3 | 19960917 | | |
| GI | | | | |

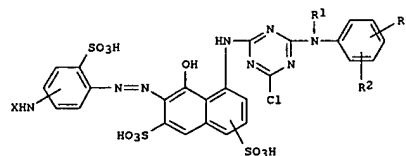


AB The dyes (I; R = optionally substituted Cl-4-alkyl; R1 = H, optionally substituted Cl-4-alkyl; X = halogen, 3-carboxy-1-pyridyl; 3-carbamoyl-1-pyridyl; Y = chromophore group; Z = diazo component group) are obtained from 2NH2, YNH2, 1,3,5-X-substituted triazine, and the appropriate R-amino-substituted 4-hydroxy-2-naphthalenesulfonic acid. I are especially suitable for dyeing and printing of celluloses and show good fastness properties. In an example, such a dye was obtained from cyanuric chloride, H acid, N-Me I acid, and 4-(2-sulfatoethylsulfonylethyl)aniline.

L11 ANSWER 6 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 2 NH2, 2 sulfo, 1 chlorotriazinyl, and 3 sulfatoethylsulfonylethyl groups, fast brown on cotton.

L11 ANSWER 8 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:992548 CAPLUS
 DN 124:31991
 TI *Reactive azo dyes, their preparation and their use.*
 IN Trikas, Athanasios; Deitz, Rolf
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

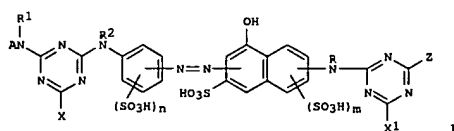
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------|------|----------|-----------------|----------|
| PI EP 675171 | A2 | 19951004 | EP 1995-810191 | 19950321 |
| EP 675171 | A3 | 19960110 | | |
| EP 675171 | B1 | 19980909 | | |
| R: BE, CH, DE, ES, FR, GB, IT, LI | | | | |
| ES 2122496 | T3 | 19981216 | ES 1995-810191 | 19950321 |
| JP 07268231 | A2 | 19951017 | JP 1995-67509 | 19950327 |
| US 5554733 | A | 19960910 | US 1995-411258 | 19950327 |
| PRAI CH 1994-963 | A | 19940330 | | |
| OS MARPAT 124:31991 | | | | |
| GI | | | | |



AB The dyes (I; R1 = optionally hydroxylated alkyl; R2, R3 = H, alkyl, alkoxy, alkanamido, halo, sulfo; X = α,β -dihalopropionyl, α -haloacryloyl) are obtained using the appropriate o-sulfoaniline derivative as the diazo component. I provide fast shades on polyamides and wool. Thus, 2-(α,β -dibromopropionamido)aniline-5-sulfonic acid-2-chloro-4-(N-ethylamino)-6-(8-hydroxy-3,6-disulfo-2-naphthylamino)-1,3,5-triazine was obtained and was fast red on wool.

L11 ANSWER 9 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:659519 CAPLUS
 DN 123:58795
 TI **Reactive azo dyes, their preparation and their application.**
 IN Deitz, Rolf; Mueller, Bernhard; Trikas, Athanasios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 38 pp.
 CODEN: EPXKDW
 DT Patent
 LA German
 FAN.CNT 1

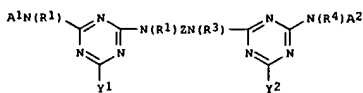
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------|------|----------|-----------------|----------|
| EP 641839 | A2 | 19950308 | EP 1994-810480 | 19940822 |
| EP 641839 | A3 | 19950405 | | |
| EP 641839 | B1 | 20000524 | | |
| R: BE, CH, DE, ES, FR, GB, IT, LI, PT | | | | |
| ES 2147225 | T3 | 20000901 | ES 1994-810480 | 19940822 |
| SG 49611 | A1 | 20001121 | SG 1996-1005 | 19940822 |
| PT 641839 | T | 20001130 | PT 1994-810480 | 19940822 |
| US 5599911 | A | 19970204 | US 1994-296206 | 19940825 |
| JP 07082502 | A2 | 19950328 | JP 1994-205236 | 19940830 |
| CN 1103084 | A | 19950531 | CN 1994-115632 | 19940831 |
| CN 1066176 | B | 20010523 | | |
| HK 1005555 | A1 | 20010302 | HK 1998-104759 | 19980602 |
| PRAI CH 1993-2599 | A | 19930901 | | |
| OS MARPAT 123:58795 | | | | |
| GI | | | | |



AB The dyes (I; A = azo, anthraquinone, phthalocyanine, formazan, or diokazine chromophore; R, R1, R2 = H, optionally substituted C1-4-alkyl; X = Cl, F, Br, 3-carboxy-1-pyridyl; 3-carbamoyl-1-pyridyl; X1, Z = as for X, OH, alkoxy, phenoxy, alkylthio, morpholino, substituted amino; m = 0, 1; n = 1, 2) are obtained from 2NHRI, cyanuric chloride or fluoride, an R2-substituted diaminobenzenesulfonic acid, an R-substituted aminosulfonaphthol, and the appropriate Z- and X1-substituted triazine. I are suited for dyeing and printing of cotton and cellulosics. Thus, 7-(2-acetamido-4-aminophenylazo)-1,3,6-

L11 ANSWER 10 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:563226 CAPLUS
 DN 122:293410
 TI **Triazine reactive dyes, their preparation, mixtures containing them, and their use**
 IN Klier, Herbert; Mueller, Bernhard; Ruhlmann, Edmond; Trikas, Athanasios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 48 pp.
 CODEN: EPXKDW
 DT Patent
 LA German
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------|------|----------|-----------------|----------|
| EP 625551 | A1 | 19941123 | EP 1994-810277 | 19940509 |
| EP 625551 | B1 | 19990929 | | |
| R: BE, CH, DE, ES, FR, GB, IT, LI, PT | | | | |
| ES 2138058 | T3 | 20000101 | ES 1994-810277 | 19940509 |
| SG 49626 | A1 | 20001121 | SG 1996-1611 | 19940509 |
| CN 1104661 | A | 19950705 | CN 1994-105513 | 19940516 |
| CN 1054146 | B | 20000705 | | |
| JP 06329941 | A2 | 19941129 | JP 1994-125896 | 19940517 |
| HK 1005694 | A1 | 20000714 | HK 1998-104791 | 19980603 |
| PRAI CH 1993-1495 | A | 19930517 | | |
| CH 1993-1951 | A | 19930629 | | |
| OS MARPAT 122:293410 | | | | |
| GI | | | | |



AB The mixts. contain ≥ 2 of I (A1, A2 = dye chromophore; R1, R2, R3, R4 = H; optionally substituted C1-4-alkyl; Y1, Y2 = halo, carboxypyridinium; Z = aliphatic bridging group), a reactive diazo dye, a reactive tetrazolazo dye, a bisformazan Cu complex reactive dye, and/or a bisdioxazine reactive dye, with each of these reactive dyes containing two fluorotriazine moieties. High fastness and color yield are obtained with the dyes. Thus, cyanuric chloride was condensed with 4,6-diamino-1,3-benzenedisulfonic acid and the product was diazotized and coupled with 1-ethyl-6-hydroxy-4-methyl-2-pyridone-3-carboxamide. This product was condensed with a mixture of ethylenediamine and trimethylenediamine to provide a dye mixture which could be used to provide brilliant yellow shades on cotton.

L11 ANSWER 9 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 naphthalenetrisulfonic acid was condensed (1:1) with cyanuric fluoride and the product was condensed with 1,3-diamino-4-benzenesulfonic acid. The resulting aniline deriv. was diazotized and coupled with 1-[4-(N-ethylanilino)-6-fluoro-1,3,5-triazin-2-ylamino]-8-hydroxy-3,6-naphthalenedisulfonic acid to provide a brilliant orange dye for cotton.

L11 ANSWER 11 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:435682 CAPLUS
 DN 122:190411
 TI **Reactive azo dyes, their production and their use.**
 IN Deitz, Rolf; Trikas, Athanasios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 19 pp.
 CODEN: EPXKDW
 DT Patent
 LA German
 FAN.CNT 1

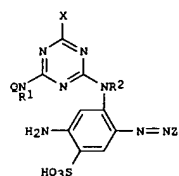
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------------------|------|----------|-----------------|----------|
| EP 624629 | A1 | 19941117 | EP 1994-810266 | 19940505 |
| EP 624629 | B1 | 19990324 | | |
| R: BE, CH, DE, FR, GB, IT, LI | | | | |
| US 5484898 | A | 19960116 | US 1994-241217 | 19940510 |
| JP 07003174 | A2 | 19950106 | JP 1994-123264 | 19940513 |
| PRAI CH 1993-1483 | A | 19930514 | | |
| OS MARPAT 122:190411 | | | | |
| GI | | | | |

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The dyes (I; R, R3 = amino, alkoxy, phenoxy, alkylthio, piperazino, morpholino; R1, R2 = H, optionally substituted alkyl; X, X1, X2 = F, Cl, Br, OH, 3-carboxy-1-pyridyl, 3-carbamoyl-1-pyridyl; n = 0, 1) are obtained by coupling of tetrazotized 6-halo-2,4-bis(3-amino-4-sulfoanilino)-s-triazines with the appropriate H acid-cyanuric halide-amine condensates. I show good fastness on cellulosics. Thus, H acid was condensed with cyanuric fluoride and PhEtNH and the product was coupled with tetrazotized with 6-chloro-2,4-bis(3-amino-4-sulfoanilino)-1,3,5-triazine to give a reactive dye which provided fast red shades on cotton.

L11 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1995:364086 CAPLUS
 DN 122:136095
 TI Triazine ring-containing fiber-reactive azo
 dyes, their preparation and use
 IN Deltz, Rolf; Trikas, Athanassios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 55 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------------------------------|------|----------|-----------------|----------|
| PI | EP 623655 | A1 | 19941109 | EP 1994-810238 | 19940427 |
| | EP 623655 | B1 | 19970716 | | |
| | R: BE, CH, DE, ES, FR, GB, IT, LI, PT | | | | |
| | JP 07003176 | A2 | 19950106 | JP 1994-109115 | 19940426 |
| | JP 2914869 | B2 | 19990705 | | |
| | ES 2106484 | T3 | 19971101 | ES 1994-810238 | 19940427 |
| | SG 49634 | A1 | 20000718 | SG 1996-2050 | 19940427 |
| | US 5484899 | A | 19960116 | US 1994-237478 | 19940503 |
| | CN 1103416 | A | 19950607 | CN 1994-104166 | 19940505 |
| | CN 1055941 | B | 20000830 | | |
| PRAI | CH 1993-1391 | A | 19930506 | | |
| OS | MARPAT 122:136095 | | | | |
| GI | | | | | |



AB Fiber-reactive dyes I (Q = residue of an azo, anthraquinone, triphenyldioxazine, phthalocyanine, or formazan dye; R₁, R₂ = H, (un)substituted C1-4-alkyl; X = F, Cl, Br, 3-carboxypyridinio, 3-carbamoylpyridinio, (un)substituted amino, OH, Cl-4-alkoxy, OPh, Cl-4-alkylthio, morpholino, aryl, aralkyl; Z = aryl containing vinylsulfonyl or precursor or α-haloacryloyl or precursor group) give fast shades on cotton and are prepared by reaction of cyanuric halides with the appropriate amines. Condensation of cyanuric chloride with 1,3,6,7-(HO₃S)3C10H₄NH₂ → 3-H₂NC₆H₄NHCONH₂ and 2,4-(H₂N)2C₆H₃SO₃H and coupling of the product with diazotized 4-H₂NC₆H₄SO₂CH₂CH₂SO₃H gave a fast golden yellow dye for cotton.

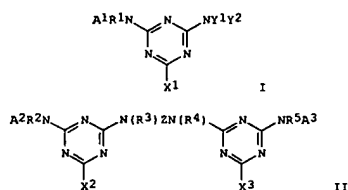
L11 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1992:573376 CAPLUS
 DN 117:173376
 TI Triazine group-containing reactive dyes, their
 preparation and use
 IN Trikas, Athanassios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 75 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | EP 489692 | A1 | 19920610 | EP 1991-810929 | 19911127 |
| | EP 489692 | B1 | 19961106 | | |
| | R: BE, CH, DE, ES, FR, GB, IT, LI | | | | |
| | ES 2096641 | T3 | 19970316 | ES 1991-810929 | 19911127 |
| | JP 04332762 | A2 | 19921119 | JP 1991-321701 | 19911205 |
| PRAI | CH 1990-3869 | A | 19901206 | | |
| OS | MARPAT 117:173376 | | | | |
| AB | The dyes, containing 1 or 2 triazine rings with N and S or O directly attached, are obtained for use on cellulosic fibers, especially cotton, and provide high color yields and good fastness. Thus, the tri-Na salt of the coupling product obtained from diazotized 2-aminonaphthalene-3,6,8-trisulfonic acid and (3-aminophenyl)urea was condensed with 2,4-dichloro-6-(methylthio)-1,3,5-triazine. The product was condensed with 3-H ₂ NC ₆ H ₄ CONHCH ₂ CH ₂ SO ₂ CH ₂ CH ₂ Cl.HCl to provide a product which could be converted to a vinyl sulfone reactive dye, which was used on cotton. | | | | |

L11 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L11 ANSWER 14 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1992:450761 CAPLUS
 DN 117:50761
 TI Triazine reactive dyes and mixtures of dyes and their
 preparation and utilization
 IN Trikas, Athanassios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 47 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 2

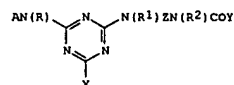
| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------------------------|------|----------|-----------------|----------|
| PI | EP 478503 | A2 | 19920401 | EP 1991-810734 | 19910917 |
| | EP 478503 | A3 | 19921028 | | |
| | EP 478503 | B1 | 19970716 | | |
| | R: BE, CH, DE, ES, FR, GB, IT, LI | | | | |
| | EP 735107 | A2 | 19961002 | EP 1996-109923 | 19910917 |
| | EP 735107 | A3 | 19961009 | | |
| | EP 735107 | B1 | 20000830 | | |
| | R: BE, CH, DE, ES, FR, GB, IT, LI | | | | |
| | EP 735113 | A2 | 19961002 | EP 1996-109924 | 19910917 |
| | EP 735113 | A3 | 19970122 | | |
| | EP 735113 | B1 | 20001018 | | |
| | R: BE, CH, DE, ES, FR, GB, IT, LI | | | | |
| | ES 2106070 | T3 | 19971101 | ES 1991-810734 | 19910917 |
| | ES 2150620 | T3 | 20001201 | ES 1996-109923 | 19910917 |
| | ES 2152455 | T3 | 20010201 | ES 1996-109924 | 19910917 |
| | US 5232462 | A | 19930803 | US 1991-764555 | 19910920 |
| | JP 3389555 | B2 | 20030324 | JP 2000-171436 | 19910925 |
| | US 5451665 | A | 19950919 | US 1993-48082 | 19930415 |
| | US 5612463 | A | 19970318 | US 1995-456215 | 19950531 |
| | US 5735911 | A | 19980407 | US 1997-775920 | 19970102 |
| | US 5892006 | A | 19990406 | US 1997-997320 | 19971223 |
| | CH 1990-3077 | A | 19900925 | | |
| PRAI | EP 1991-810734 | A3 | 19910917 | | |
| | US 1991-764555 | A3 | 19910920 | | |
| | US 1993-48082 | A1 | 19930415 | | |
| | US 1995-456215 | A1 | 19950531 | | |
| | US 1997-775920 | A3 | 19970102 | | |
| OS | MARPAT 117:50761 | | | | |
| GI | | | | | |



L11 ANSWER 14 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 AB The dyes are I-II mixts. or II alone (Al-A3 = residue of *aso*, anthraquinone, etc., dye; R1-R5 = H, (un)substituted C1-4 alkyl; X1-X3 = F, Cl, Br, SO₃H, carboxypyridinium; Y1, Y2 = H, organic group; Z = aliphatic or aromatic bridging group) and are obtained by simultaneous synthesis or mixing. The compns. are suitable for dyeing and printing of cotton. Thus, 7-(4-amino-2-ureidophenylazo)-1,3,6-naphthalenetrisulfonic acid was condensed 1:1 with 2,4,6-trifluoro-s-triazine at 0-5° and the product was treated with 1 mol of a mixture of 2,4-diaminotoluene and morpholine to give a mixture of a disazo dye and a morpholine *aso* dye, each containing fluorotriazine residues. The mixture provided golden yellow shades on cotton.

L11 ANSWER 15 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1992:428758 CAPLUS
 DN 117:28758
 TI Triazine-containing reactive dyes, their preparation and use
 IN Tsikas, Athanassios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 36 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

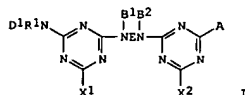
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------|------|----------|-----------------|----------|
| PI EP 478504 | A2 | 19920401 | EP 1991-810735 | 19910917 |
| EP 478504 | A3 | 19921223 | | |
| EP 478504 | B1 | 19970521 | | |
| R: BE, CH, DE, ES, FR, GB, IT, LI | | | | |
| ES 2103791 | T3 | 19971001 | ES 1991-810735 | 19910917 |
| JP 04272963 | A2 | 19920929 | JP 1991-245983 | 19910925 |
| US 5268457 | A | 19931207 | US 1992-999184 | 19921228 |
| PRAI CH 1990-3076 | A | 19900925 | | |
| US 1991-764533 | B1 | 19910920 | | |
| OS MARPAT 117:28758 | | | | |
| GI | | | | |



AB The dyes [I; ANHR = *aso*, anthraquinone, etc., dye; R, R2 = H, (un)substituted C1-4 alkyl; R1 = H, (un)substituted C1-4 alkyl, ZN(R2)COY; X = F, Cl; Y = nonreactive organic group; Z = aliphatic or aromatic bridging group] are obtained for dyeing and printing of cellulosics, especially cotton. Thus, 7-(4-amino-2-ureidophenylazo)-1,3,6-naphthalenetrisulfonic acid was condensed 1:1 with 2,4,6-trifluoro-s-triazine and the product was treated 1:1 with ethylenediamine. By condensation with Ac₂O, a compound was obtained which dyed cotton in golden yellow shades.

L11 ANSWER 16 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1992:131155 CAPLUS
 DN 116:131155
 TI Reactive dyes with two triazine rings, their preparation and use
 IN Tsikas, Athanassios; Seiler, Herbert
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 65 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

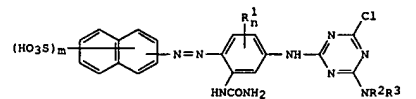
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------|------|----------|-----------------|----------|
| PI EP 458743 | A2 | 19911127 | EP 1991-810362 | 19910510 |
| EP 458743 | A3 | 19921021 | | |
| R: BE, CH, DE, ES, FR, GB, IT, LI | | | | |
| JP 04227970 | A2 | 19920818 | JP 1991-115822 | 19910521 |
| PRAI CH 1990-1715 | A | 19900521 | | |
| OS MARPAT 116:131155 | | | | |
| GI | | | | |



AB The dyes [I; D = *aso*, anthraquinone, or heterocyclic dye residue; R1, Bl, B2 = H, (un)substituted C1-4-alkyl; X1, X2 = halo, SO₃H, organic sulfonyl, carboxypyridinium; E = (un)substituted phenylenealkylene or phenyleneoxyalkylene; A = (un)substituted amino] are prepared for printing and dyeing of cellulosic fibers. Thus, tri-Na 7-(4-amino-2-ureidophenylazo)-1,3,6-naphthalenetrisulfonate was condensed with 2,4,6-trifluoro-s-triazine and the product was condensed with 4-(aminomethyl)aniline to give a reactive dye, which dyed cotton in golden yellow shades.

L11 ANSWER 17 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1991:585369 CAPLUS
 DN 115:185369
 TI Fiber-reactive dyes, their preparation and their use
 IN Tsikas, Athanassios; Herzog, Paul
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 18 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------|------|----------|-----------------|----------|
| PI EP 426616 | A1 | 19910508 | EP 1990-810812 | 19901023 |
| EP 426616 | B1 | 19951115 | | |
| R: BE, CH, DE, ES, FR, GB, IT, LI | | | | |
| ES 2080820 | T3 | 19960216 | ES 1990-810812 | 19901023 |
| US 5128456 | A | 19920707 | US 1990-604551 | 19901026 |
| KR 181491 | B1 | 19990401 | KR 1990-17410 | 19901030 |
| BR 9005528 | A | 19910917 | BR 1990-5528 | 19901031 |
| JP 03162460 | A2 | 19910712 | JP 1990-297055 | 19901101 |
| JP 3011994 | B2 | 20000221 | | |
| PRAI CH 1989-3939 | A | 19891101 | | |
| OS MARPAT 115:185369 | | | | |
| GI | | | | |



AB Reactive dyes I [m = 1-3; n = 0-3; R1 = halogen, NO₂, CN, CF₃, SO₂NH₂, CONH₂, C1-4-alkyl, C1-4-alkoxy, NH₂, NHAc, ureido, OH, CO₂H, SO₃H, CH₂SO₃H; R2 = H, C1-8-alkyl, C5-7-cycloalkyl; R3 = C1-8-alkyl, C5-7-cycloalkyl (the alkyl and cycloalkyl groups of R2 and R3 are optionally substituted with OH, Cl-4-alkoxy, hydroxy-C1-4-alkoxy, HO(CH₂CH₂O)₂-4, sulfato-C1-4-alkoxy, C2-4-alkanoyl, C1-4-alkoxycarbonyl, C2-4-alkanoyloxy, CO₂H, CN, halogen, C1-4-alkylamino, di-C1-4-alkylamino, or sulfato groups)] are prepared and used to print and dye cotton in fast yellow to orange shades. Thus, 585 parts 7-[4-(4,6-dichloro-s-triazin-2-ylamino)-2-ureidophenylazo]-1,3,6-naphthalenetrisulfonic acid was treated with 79 parts ethanolamine to give 7-[4-(4-chloro-6-(2-hydroxyethylamino)-s-triazin-2-ylamino)-2-ureidophenylazo]-1,3,6-naphthalenetrisulfonic acid, which imparted fast golden yellow shades to cotton.

L11 ANSWER 18 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1991:64248 CAPLUS
 DN 114:64248
 TI Reactive dyes containing vinylsulfonylalkylamino groups bound to a bis(triazinylamino)benzene group
 IN Tsikas, Athanassios
 PA Ciba-Geigy Corp., USA
 SO U.S., 61 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|------|----------|-----------------|----------|
| PI US 4925928 | A | 19900515 | US 1988-210678 | 19880623 |
| PRAI US 1988-210678 | | 19880623 | | |
| OS MARPAT 114:64248 | | | | |

GI For diagram(s), see printed CA Issue.
 AB The title dyes I [A = amino substituent containing ≥ 1 SO₂Z group; Z = β -sulfoethoxyethyl, β -thiosulfatoethyl, β -phosphatoethyl, β -acetoxylethyl, β -haloethyl, CH:CH₂; G = chromophoric residue; R, R₁, R₂ = H, (un)substituted C1-4 alkyl; X, Y = F, Cl, Br, SO₃H, Cl-4 alkylsulfonyl, phenylsulfonyl; Z1 = H, Cl-4 alkyl, Cl-4 alkoxy, halogen, CO₂H, SO₃H], useful for dyeing or printing cellulosic fabrics, are prepared
 Thus, Na 2-(3'-(aminophenyl)amino-4,6-dichloro-1,3,5-triazine-4'-sulfonate was diazotized, coupled with Na
 2,6-dihydroxy-3-sulfomethyl-4-methylpyridine salt, the intermediate condensed with Na
 1,3-phenylenediamine-4-sulfonate and then with cyanuric chloride, and H₂N(CH₂)₂O(CH₂)₂SO₂(CH₂)₂Cl.HCl added, forming II, which dyed cellulosic fibers fast greenish yellow shades.

L11 ANSWER 19 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1990:593450 CAPLUS
 DN 113:193450
 TI Triazine ring-containing reactive dyes with vinylsulfone or precursor residues
 IN Tsikas, Athanassios
 PA Ciba-Geigy A.-G., Switz.
 SO Ger. Offen., 58 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|------|----------|-----------------|----------|
| PI DE 3935583 | A1 | 19900503 | DE 1989-3935583 | 19891025 |
| CH 676991 | A | 19910328 | CH 1988-4041 | 19881028 |
| US 5084562 | A | 19920128 | US 1989-422861 | 19891017 |
| GB 2225019 | A1 | 19900523 | GB 1989-23812 | 19891023 |
| GB 2225019 | B2 | 19920610 | | |
| FR 2638459 | A1 | 19900504 | FR 1989-14057 | 19891026 |
| FR 2638459 | B1 | 19910208 | | |
| JP 02170864 | A2 | 19900702 | JP 1989-278821 | 19891027 |
| PRAI CH 1988-4041 | | | | |
| OS MARPAT 113:193450 | | | | |
| GI | | | | |

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title dyes I [A = substituted aminophenyl group containing sulfone group, aminonaphthyl group containing sulfone group; R = substituted aminoalkyl containing vinylsulfone or vinylsulfone-precursor residues; R₁, R₂ = H, (un)substituted C1-4 alkyl; X = chromophoric residue; Y = direct bond, (CH₂)_n, O(CH₂)_n; n = 1-6; l = 1, 2], useful for dyeing or printing of cellulose-containing fibers, are prepared Thus,
 1-(4'-sulfofenyl)-3-carboxy-4-(4'-amino-2'-sulfofenylazo)-5-pyrazolone was condensed with cyanuric fluoride, the condensate condensed with 4-aminobenzoic acid-N'- β -(β '-chloroethylsulfonyl)ethylamide hydrochloride, and the condensate condensed with 3-aminobenzoic acid-N'- β -(β '-chloroethylsulfonyl)ethylamide hydrochloride, producing II, which dyed cotton fabrics fast golden-yellow shades.

L11 ANSWER 20 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1989:536011 CAPLUS
 DN 111:136011
 TI Difunctional dis- or triazo reactive dyes
 IN Tsikas, Athanassios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 60 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------|------|----------|-----------------|----------|
| PI EP 313513 | A1 | 19890426 | EP 1988-810632 | 19880915 |
| EP 313513 | B1 | 19920617 | | |
| R: CH, DE, FR, GB, LI | | | | |
| JP 01115963 | A2 | 19890509 | JP 1988-237557 | 19880924 |
| PRAI CH 1987-4098 | | | | |
| OS MARPAT 111:136011 | | | | |
| GI | | | | |

AB The title dyes, containing s-triazine rings and useful for dyeing or printing cellulosic fabrics in fast shades, are prepared J acid was condensed with cyanuric chloride and then with 3-(H₂N)C₆H₄CONHCH₂CH₂SO₂CH₂CH₂SO₃H and the product was coupled with diazotized 7-[(4-amino-3-sulfofenyl)azo]-1,5-naphthalenedisulfonic acid to give I, which dyed cotton in a fast red shade.

L11 ANSWER 21 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1989:424960 CAPLUS
 DN 111:24960
 TI Bifunctional reactive triazine group-containing dyes
 IN Tsikas, Athanassios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 72 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

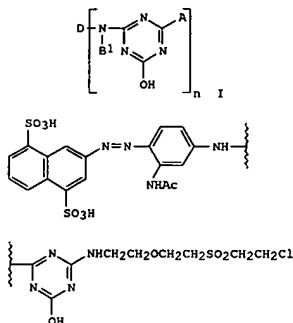
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------------------|------|----------|-----------------|----------|
| PI EP 297044 | A2 | 19881228 | EP 1988-810410 | 19880615 |
| EP 297044 | A3 | 19890201 | | |
| EP 297044 | B1 | 19920819 | | |
| R: BE, CH, DE, ES, FR, GB, IT, LI | | | | |
| ES 2051887 | T3 | 19940701 | ES 1988-810410 | 19880615 |
| BR 8803093 | A | 19890124 | BR 1988-3093 | 19880623 |
| JP 01022970 | A2 | 19890125 | JP 1988-155112 | 19880624 |
| PRAI CH 1987-2379 | | | | |
| OS MARPAT 111:24960 | | | | |
| GI | | | | |

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title dyes I [A = an amino substituent containing SO₂Z group(s); Z = β -sulfoethoxyethyl, β -thiosulfatoethyl, β -phosphatoethyl, β -acyloxyethyl, β -haloethyl, CH:CH₂; A₁, A₂, R = H, (un)substituted C1-4 alkyl; D = chromophoric residue; Q = H, Cl-4 alkyl, CO₂H, Cl-4 alkoxy, halogen, SO₃H; X, Y = F, Cl, Br, SO₃H, Cl-4 alkylsulfonyl, phenylsulfonyl], useful for dyeing or printing of cellulose-containing fabrics, are prepared The Na salt of 2-(3'-aminophenyl)amino-4,6-dichloro-1,3,5-triazine-4'-sulfonic acid was diazotized and coupled with the Na salt of
 2,6-dihydroxy-3-sulfomethyl-4-methylpyridine, the intermediate condensed with the condensate of 1,3-(H₂N)C₆H₃SO₃Na-4, and cyanuric chloride and the intermediate condensed with HCl.H₂N(CH₂)₂O(CH₂)₂SO₂(CH₂)₂Cl, forming II, which dyed cellulose fabrics in a fast greenish yellow shade.

L11 ANSWER 22 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1988:7496 CAPLUS
 DN 108:7496
 TI Hydroxytriazine ring-containing reactive dyes
 IN Tsikas, Athanassios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 96 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN. CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------------------|------|----------|-----------------|----------|
| EP 233139 | A2 | 19870819 | EP 1987-810002 | 19870106 |
| EP 233139 | A3 | 19871209 | | |
| EP 233139 | B1 | 19910116 | | |
| R: BE, CH, DE, FR, GB, IT, LI | | | | |
| JP 62215661 | A2 | 19870922 | JP 1987-1963 | 19870109 |
| PRAI CH 1986-88 | A | 19860110 | | |
| GI | | | | |



II

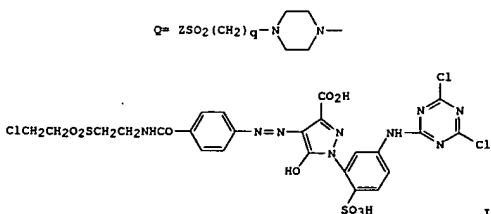
AB Dyes I (A = amino substituent containing Z1 group SO2Z with Z = β-sulfatoethyl, β-thiosulfatoethyl, β-haloethyl, etc.; B1 = H, C1-4 alkyl, etc.; D = residue of monoazo, polyazo, or other dye; n = 1-2), useful for dyeing cellulose-containing textiles, are prepared
 Condensing 2-(2-acetamido-4-aminophenylazo)-4,8-disulfonaphthalene with cyanuric fluoride and H2NCH2CH2OCH2CH2SO2CH2CH2Cl, followed by hydrolysis in

L11 ANSWER 22 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 aq. HCl at 70° gave II which dyed cotton in a yellow shade.

L11 ANSWER 23 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1987:498203 CAPLUS
 DN 107:98203
 TI Bifunctional reactive azo dyes
 IN Tsikas, Athanassios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 155 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN. CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------------------|------|----------|-----------------|----------|
| EP 221013 | A1 | 19870506 | EP 1986-810427 | 19860929 |
| EP 221013 | B1 | 19900117 | | |
| R: BE, CH, DE, FR, GB, IT, LI | | | | |
| US 4766206 | A | 19880823 | US 1986-911176 | 19860924 |
| BR 8604823 | A | 19870707 | BR 1986-4823 | 19861003 |
| JP 62161859 | A2 | 19870717 | JP 1986-234721 | 19861003 |
| JP 08030152 | B4 | 19960327 | | |
| PRAI CH 1985-4289 | A | 19851003 | | |
| GI | | | | |

L11 ANSWER 23 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 intermediate condensed with cyanuric chloride, forming I, which was used to dye a cotton fabric.

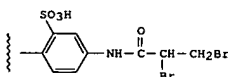
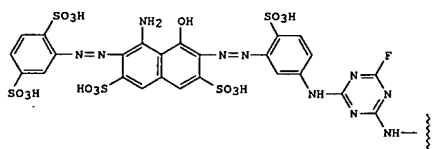
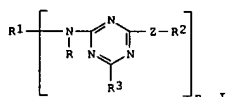


I

AB The title compds. (RU)ND(X)r [D = monoazo-, polyazo-, metal complex azo-, anthraquinone-, phthalocyanine-, formazan-, azomethine-, dioxazine-, phenazine-, stilbene-, triphenylmethane-, xanthene-, thioxanthone-, nitroaryl-, naphthoquinone-, pyrenequinone-, or perylenetetracarboximide-dye residue; R = ZSO2CH2Z1(Y)N(V)-, ZSO2(CH2)mO(CH2)pN(R1)-, ZSO2Z2NH2Z2NH-, Q: Z = sulfatoethyl, β-thiosulfatoethyl, β-phosphatoethyl, β-acetoxyethyl, β-haloethyl, H2C=CH; Z1 = C1-6 alkylene; Z2 = C2-6 alkylene; V = H, (un)substituted C1-4 alkylene, (un)substituted C1-2 alkoxy, ZSO2CH2Z1(Y)-;
 R1 = H, C1-6 alkyl; Y = H, Cl, Br, F, HO, HOSO3, C1-4 acyloxy, CN, CO2H, C1-5 alkoxy, carbonyl, carbamoyl, SO2Z; m = 1-6; p, q = 1-6; U = CO, SO2; X = an aliphatic, aromatic, or heterocyclic reactive residue; n, r = 1, 2] are prepared and are useful for dyeing or printing of textiles, especially cotton. Thus, diazotized 4-ClCH2CH2SO2CH2CH2NHCO6H4NH2.HCl was coupled with 1-(5-amino-2-sulfophenyl)-3-carboxy-5-pyrazolone, and the yellow

L11 ANSWER 24 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1987:68720 CAPLUS
 DN 106:68720
 TI Reactive dyes
 IN Scheibli, Peter; Seitz, Karl; Seiler, Herbert; Tsikas, Athanasios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 81 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-------------------------------|------|----------|-----------------|----------|
| PI | EP 179019 | A1 | 19860423 | EP 1985-810463 | 19851009 |
| | EP 179019 | B1 | 19900516 | | |
| | R: BE, CH, DE, FR, GB, IT, LI | | | | |
| | JP 61264062 | A2 | 19861121 | JP 1985-227975 | 19851015 |
| | JP 06089263 | B4 | 19941109 | | |
| | US 4801694 | A | 19890131 | US 1987-73323 | 19870713 |
| PRAI | CH 1984-4931 | A | 19841015 | | |
| GI | US 1985-785178 | A1 | 19851007 | | |

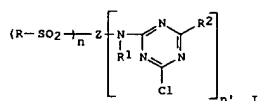


II

AB Reactive dyes I [n = 1, 2; R = H, Cl-4 alkyl; R1 = organic dye residue of the monoazo, polyazo, metal complex azo, anthraquinone, phthalocyanine, formazan, azomethine, dioxazine, phenazine,

L11 ANSWER 25 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1987:68719 CAPLUS
 DN 106:68719
 TI Reactive dyes
 IN Tsikas, Athanasios
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 118 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-------------------------------|------|----------|-----------------|----------|
| PI | EP 177445 | A1 | 19860409 | EP 1985-810426 | 19850920 |
| | EP 177445 | B1 | 19900523 | | |
| | R: BE, CH, DE, FR, GB, IT, LI | | | | |
| | EP 305021 | A2 | 19890301 | EP 1986-202095 | 19850920 |
| | EP 305021 | A3 | 19890315 | | |
| | EP 305021 | B1 | 19920129 | | |
| | R: BE, CH, DE, FR, GB, IT, LI | | | | |
| | BR 8504720 | A | 19860722 | BR 1985-4720 | 19850925 |
| | JP 61123671 | A2 | 19860611 | JP 1985-211200 | 19850926 |
| | JP 2510496 | B2 | 19960626 | | |
| | US 5233026 | A | 19930803 | US 1991-740656 | 19910802 |
| PRAI | CH 1984-4612 | A | 19840926 | | |
| | US 1985-777902 | B1 | 19850919 | | |
| | EP 1985-810426 | P | 19850920 | | |
| | US 1987-58621 | B1 | 19870604 | | |
| | US 1988-210220 | B1 | 19880617 | | |
| GI | US 1990-483283 | B1 | 19900220 | | |



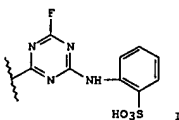
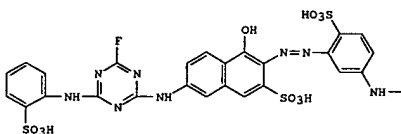
AB Reactive dyes I [n, n1 = 1, 2; R = vinyl, β-sulfatoethyl, β-thiosulfatoethyl, β-chloroethyl, β-acetoxyethyl; R1 = H, Cl-4 alkyl; R2 = (un)substituted NH2; provided that R2 may not be a SO3H or CO2H substituted PhN group, or when a triazine is bound to a 1,8-aminonaphthyl-3,6- or -4,6-disulfonic acid then the residue RS02 is bound directly to an aromatic C; Z = monoazo dye residue] are useful for printing or dyeing cellulose containing materials, especially cotton.

Thus, 4-β-sulfatoethylsulfonylaniline was diazotized and coupled with 1-(5'-aminophenyl-2'-sulfo)-3-carboxy-5-pyrazolone, the resulting monoazo dye condensed with cyanuric chloride, and N-methylaniline condensed with the substituted triazine forming bifunctional azo reactive dye.

L11 ANSWER 24 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 stilbene, triphenylmethane, xanthene, thioxanthone, nitroaryl, naphthoquinone, pyroquinone, or perylenetetracarboximide series; R2 = CO2,
 SO2Z: Z = aliph., arom., or heterocyclic reactive group; R3 = an ionically cleavable substituent; Z = NR5, N(R5)NR4, N(R5)Z1NR4; R4, R5 = H, Cl-4 alkyl, Ph; Z1 = (un)substituted aliph. or arom. bridging group, are useful for the dyeing or printing of cellulose contg. fabrics. Thus, 1-amino-4-(2,3-dibromopropionylamino)-2-benzenesulfonic acid was condensed with cyanuric fluoride, and the intermediate condensed with a disazo dye forming II, which dyed cotton a blue shade.

L11 ANSWER 26 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1985:150918 CAPLUS
 DN 102:150918
 TI Reactive azo dyes for cellulosic textiles
 IN Tsikas, Athanasios; Kaeser, Adolf
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 84 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------------------|------|----------|-----------------|----------|
| PI | EP 131542 | A1 | 19850116 | EP 1984-810275 | 19840606 |
| | EP 131542 | B1 | 19890419 | | |
| | R: CH, DE, FR, GB, IT, LI | | | | |
| | JP 60008367 | A2 | 19850117 | JP 1984-118384 | 19840611 |
| | JP 05078598 | B4 | 19931029 | | |
| | US 4818247 | A | 19890404 | US 1987-53526 | 19870521 |
| PRAI | CH 1983-3187 | A | 19830610 | | |
| | US 1984-618691 | A1 | 19840608 | | |
| | US 1985-767247 | A1 | 19850820 | | |
| GI | US 1986-835586 | A1 | 19860303 | | |



AB Bireactive azo dyes of general structure RR1N(QN:NQ1)NR2R3 are prepared, where Q represents a diazo component residue of the benzene, naphthalene, azobenzene, naphthylazobenzene, azonaphthalene, or phenylazonaphthalene type; Q1 is a coupler residue of benzene, naphthalene, or heterocyclic (except pyrazolone) type; R and R2 are H or Cl-4 alkyl; and R1 and R3 are (un)substituted aminofluoro-s-triazinyl. Thus, reaction of 2-amino-6-(3-amino-6-sulfophenylazo)-5-hydroxy-7-naphthalenesulfonic acid [95713-97-6] with 2,4-difluoro-6-(2-sulfophenylamino)-1,3,5-triazine [60379-39-7] in H2O at 20-25°C/pH 7.0 gave I [95727-46-1], an orange dye for cotton. Numerous other mono- and disazo dyes were prepared.

=> d his full

(FILE 'HOME' ENTERED AT 10:10:37 ON 02 DEC 2005)

FILE 'REGISTRY' ENTERED AT 10:10:46 ON 02 DEC 2005

L1 STRUCTURE UPLOADED

L*** DEL 15 S L1E

L2 3 SEA SSS SAM L1

D L1

D SCAN

L3 8 SEA SSS FUL L1

FILE 'CAPLUS' ENTERED AT 10:12:08 ON 02 DEC 2005

L4 2 SEA ABB=ON PLU=ON L3

D QUE L4 STAT

D 1-2 IBIB IABS HITSTR

E WO2004013235/PN

L5 1 SEA ABB=ON PLU=ON WO2004013235/PN

D IND

SEL L5 1 RN

FILE 'REGISTRY' ENTERED AT 10:16:18 ON 02 DEC 2005

L6 7 SEA ABB=ON PLU=ON (108-77-0/BI OR 215500-05-3/BI OR 24352-85-0/BI OR 656249-85-3/BI OR 88-63-1/BI OR 90-20-0/BI OR 97987-08-1/BI)

D 1-7 IDE CAN

FILE 'CAPLUS' ENTERED AT 10:18:30 ON 02 DEC 2005

D L5

D L5 BIB ABS

E TZIKAS ATHANASSIOS/AU

L7 127 SEA ABB=ON PLU=ON "TZIKAS ATHANASSIOS"/AU

E MULLER BERNHARD/AU

L8 27 SEA ABB=ON PLU=ON ("MULLER BERNHARD"/AU OR "MULLER BERNHARD H"/AU)

E ROENTGEN GEORG/AU

L9 8 SEA ABB=ON PLU=ON "ROENTGEN GEORG"/AU

L10 153 SEA ABB=ON PLU=ON L7 OR L8 OR L9

L11 26 SEA ABB=ON PLU=ON L10 AND (REACTIVE AND AZO AND TRIAZIN?)

D QUE L11 STAT

D 1-26 BIB ABS

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 30 NOV 2005 HIGHEST RN 869059-01-8

DICTIONARY FILE UPDATES: 30 NOV 2005 HIGHEST RN 869059-01-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE CAPLUS

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 2 Dec 2005 VOL 143 ISS 24
FILE LAST UPDATED: 1 Dec 2005 (20051201/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=>